

AMENDMENTS TO THE CLAIMS

The following listing of claims shall replace all previous versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-13 (cancelled)

Claim 14 (currently amended): An integrated expansion card occupying a single bus slot of a computer system, comprising: a first embedded device and a second embedded device wherein said first and second embedded devices are operable to share a said single bus slot, said second embedded device comprising a bus host controller operable to input and output commands and data to said bus and to an expansion card device connected to said bus host controller; said second embedded device being capable of responding to registers that are queried by an operating system for a PCI-to-PCMCIA bridge so that said operating system detects the presence of a PCI-to-PCMCIA bridge.

Claim 15 (currently amended): An integrated expansion card as claimed in claim 14, wherein said first embedded device comprising comprises a video controller.

Claim 16 (currently amended): An integrated expansion card as claimed in claim 14, wherein said first embedded device comprising comprises a network controller.

Claim 17 (currently amended): An integrated expansion card as claimed in claim 14, wherein said first embedded device comprising comprises a modem.

Claim 18 (currently amended): An integrated expansion card as claimed in claim 14, wherein said first embedded device comprising comprises a memory device.

Claim 19 (currently amended): An integrated expansion card as claimed in claim 14, wherein said first embedded device comprising comprises a core logic chipset associated with said computer system.

Claim 20 (original): An integrated expansion card as claimed in claim 14, wherein said bus comprises a PCI bus, and said bus slot comprises a PCI bus slot for physically connecting said expansion card with said computer system.

Claim 21 (original): An integrated expansion card as claimed in claim 14, wherein said second embedded device comprises a PCI-to-PCMCIA host controller.

Claim 22 (original): An integrated expansion card as claimed in claim 14, wherein said expansion card device comprises a smart card reader.

Claim 23 (original): An integrated expansion card as claimed in claim 14, further comprising a processor to connect the input and output of said first and second embedded devices and said expansion card device to said bus.

Claim 24 (currently amended): An integrated expansion card as claimed in claim 23, wherein said processor comprising comprises configuration registers comprising a header region

and a device dependent region for each said embedded devices, said header region comprising data to identify said embedded devices and device dependent region comprising data specific to said first or second embedded device.

Claim 25 (original): An integrated expansion card as claimed in claim 14, said expansion card comprising a first input/output path and a second input /output path for communication between said first and second embedded devices, respectively, with said computer system.

Claim 26 (currently amended): An integrated expansion card as claimed in claim 25, further comprising a function router comprising a multiplexer to ~~route~~ route data and control signals between said a processor and said first or second input/output paths path.

Claim 27 (currently amended): An integrated, multifunction expansion card for a computer system, comprising:

a first embedded device;

a second embedded device comprising a PCI-to-PCMCIA host controller, said PCI-to-PCMCIA host controller being capable of responding to registers that are queried by an operating system for a PCI-to-PCMCIA bridge so that said operating system detects the presence of a PCI-to-PCMCIA bridge;

a first and second input/output path paths for exchanging control signals and data between said first or second embedded devices device, respectively, and said computer system, via a single PCI bus connection;

a third input/output path for exchanging control signals and data between said second embedded device and an expansion card device; and

a function router for selecting said first embedded device or said second embedded device to operate via said first or second input/output path, respectively.

Claim 28 (currently amended): An integrated, multifunctional expansion card as claimed in claim 27, wherein said first embedded device is selected from the group consisting of a video controller, a network controller, a modem, a memory device, and a core logic associated with said computer system.

Claim 29 (original): An integrated, multifunctional expansion card as claimed in claim 27, wherein said function router comprises a multiplexer to route data and/or control signals between the first or second embedded device and said first or second input/output paths, respectively.

Claim 30 (currently amended): An integrated, multifunctional expansion card as claimed in claim 27, where said PCI-to-PCMCIA host controller includes a PCI-to-PCMCIA bridge to permit said device expansion card to exchange commands and data with said PCI bus.